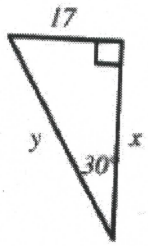
Name ANSWER KEY Period _____

Geometry Unit 7 Worksheet #3 – 30-60-90 Triangles

For #1 - 5, find the missing sides in the 30-60-90 triangle given the side opposite the 30° angle.

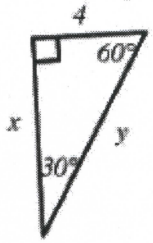
1.



x = $17\sqrt{3}$

y = 34

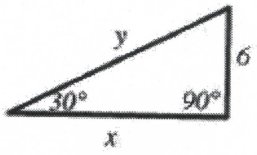
2.



x = $4\sqrt{3}$

y = 8

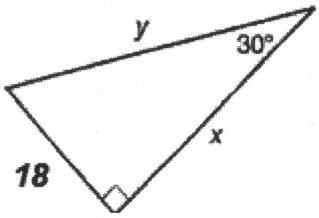
3.



x = $6\sqrt{3}$

y = 12

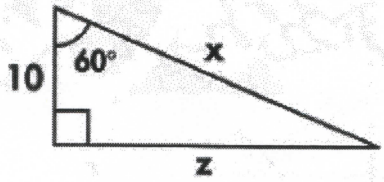
4.



x = $18\sqrt{3}$

y = 36

5.

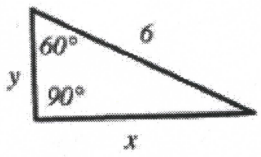


x = 20

z = $10\sqrt{3}$

For #6 - 10, find the missing sides in the 30-60-90 triangle given the side opposite the 90° angle.

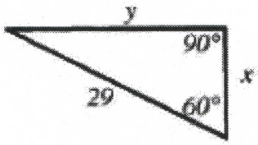
6.



x = $3\sqrt{3}$

y = 3

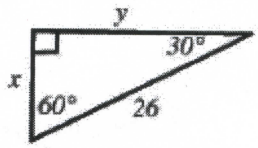
7.



x = 14.5

y = $14.5\sqrt{3}$

8.

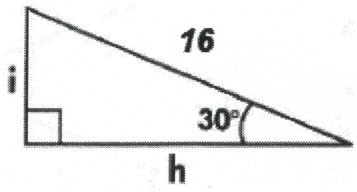


x = 13

y = $13\sqrt{3}$

07 W33 #2

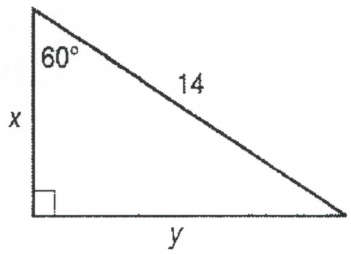
9.



i = 8

h = $8\sqrt{3}$

10.

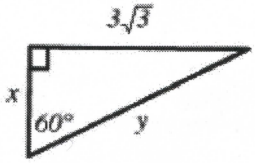


x = 7

z = $7\sqrt{3}$

For #11 - 15, find the missing sides in the 30-60-90 triangle given the side opposite the 60° angle.

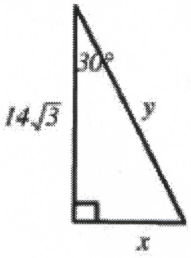
11.



x = 3

y = 6

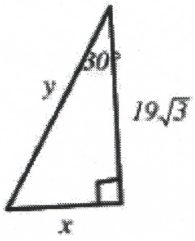
12.



x = 14

y = 28

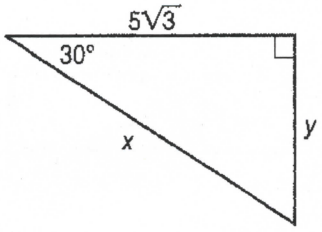
13.



x = 19

y = 38

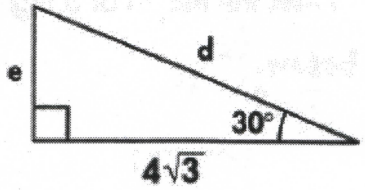
14.



x = 10

y = 5

15.



e = 4

d = 8